APPENDIX A

"CLEAN" VERSION OF EACH PARAGRAPH/SECTION/CLAIM 37 C.F.R. § 1.121(b)(ii) AND (c)(i)

CLAIMS (with indication of amended or new):

1. (AMENDED) A method for fabricating a high density ceramic thick film comprising the steps of:

providing vehicle comprising an organic binder and solvent;

dispersing ceramic powders into the vehicle to be a paste;

forming the paste to thick film by screen printing;

removing the organic binder from the film;

applying sol or sol-like solution to the surface of the film so that the sol or sol-like solution can infiltrate into the film, the sol-like solution being a material that can be processed as a solution by a sol-gel process;

removing the remaining sol or sol-like solution from the surface of the film by spinning the film;

drying and preheating the film; and sintering the film at the range from 700 to 1200°C.

2. (AMENDED) The method of claim 1, wherein the sol or sol-like solution includes metalorganic material used as a sol-like solution singly, mixed with other material, or dissolved in a solvent and the metalorganic material comprises one or more of alkoxide, hydrate or carbonate and the metalorganic material containing PZT component.

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6. (AMENDED) The method of claim 1, wherein the sintering temperature is 800 to

9. (AMENDED) The method for fabricating a high density ceramic thick film comprising the steps of:

providing vehicle comprising an organic binder and solvent;

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900°C.

dispersing ceramic powders into the vehicle to be paste;

forming the paste to thick film by screen printing;

removing the organic binder from the film;

applying sol or sol-like solution to the surface of the film so that the sol or sol-like solution can infiltrate into the film;

removing the remaining sol or sol-like solution from the surface of the film by spinning the film;

drying and preheating the film;

sintering the film;

applying sol or sol-like solution to the surface of the film again so that the sol or sol-like solution can infiltrate into the film; and

sintering the film.

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APPENDIX B

VERSION WITH MARKINGS TO SHOW CHANGES MADE 37 C.F.R. § 1.121(b)(iii) AND (c)(ii)

CLAIMS:

1. (AMENDED) A method for fabricating a high density ceramic thick film comprising the steps of:

providing vehicle comprising an organic binder and solvent; dispersing ceramic powders into the vehicle to be <u>a</u> paste; forming the paste to thick film by screen printing; removing the organic binder from the film;

applying sol or sol-like solution to the surface of the film so that the sol or sol-like solution can infiltrate into the film, the sol-like solution being a material that can be processed as a solution by a sol-gel process;

removing the remaining sol or sol-like solution from the surface of the film by spinning the film;

drying and preheating the film; and sintering the film at the range from 700 to 1200°C.

- 2. (AMENDED) The method of claim 1, wherein the sol or sol-like solution <u>includes</u> [has metal organic PZT component separated, mixed or dissolved in a solvent] <u>metalorganic</u> material used as a sol-like solution singly, mixed with other material, or dissolved in a solvent and the metalorganic material comprises one or more of alkoxide, hydrate or carbonate and the metalorganic material containing PZT component.
- 6. (AMENDED) The method of claim 1, wherein the sintering temperature is 800 to 900°C[in case of sintering].

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9. (AMENDED) The method for fabricating a high density ceramic thick film comprising the steps of:

providing vehicle comprising an organic binder and solvent;

dispersing ceramic powders into the vehicle to be paste;

forming the paste to thick film by screen printing;

removing the organic binder from the film;

applying sol or sol-like solution to the surface of the film so that the sol or sol-like solution can infiltrate into the film;

removing the remaining sol or sol-like solution from the surface of the film by spinning the film;

drying and preheating the film;

sintering the film;

applying sol or sol-like solution to the surface of the film again so that the sol or sol-like solution can infiltrate into the film; and

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sintering the film[;].

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